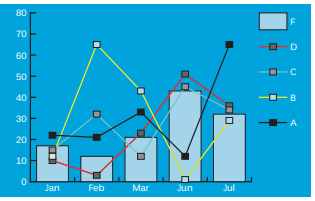
customization expands your
capabilities
GT5000 and GT6000
artists aren't the only ones able to look at the ordinary, customize it, and turn it into a show stopper...you to have the power to unite vision and technology for the highest impact imaginable.
the show is on.
Empowered by Innovation
NEC




| | |
|---|---|
| GT5000 | XGA<br>6000 ANSI |
| GT6000 | SXGA+<br>5300 ANSI |

# the show is on.

In your boardroom, congregation, auditorium, rental/staging facility and more, the shape of presentations is changing. Your message needs to impress, to convince and to be presented with pure audience impact. With the GT series projectors NEC converges these requirements into a fully customizable presentation solution.

The GT Series projection systems give you tremendous configuration flexibility so you can place or install the projectors almost anywhere, connect them to virtually any source or even control and monitor them from your local area network.

With SweetVision™ contrast enhancement technology, Faroudja® DCDi™ de-interlacing and VORTEX Technology Plus™ color correction your video and data presentations will take on an unparalleled realism. Zoom in on architectural details of new office buildings. See them with clarity and unrivaled sharpness. Wow your audiences with heart stopping video and super-rich colors. Impress the board with detailed sales charts and graphs. Whatever impact you desire, the feature rich GT projectors help bring it all together with show stopping power.

Two projection systems are offered to help meet your most demanding presentation requirements. The GT5000 , a native XGA resolution projector with light output up to 6000 ANSI lumens is designed for general computer and video presentations. The GT6000, offering a native SXGA+ (1400 x 1050) resolution and light output up to 5300 ANSI is designed for environments demanding the most precise and detailed high resolution display.

The show is on. A perfect union of application and systems for presentation power.

simple or sophisticated,
the show goes on

original image

after SweetVision

original image

after 3D 10-bit video decoder

# see the digital difference.

When it comes to color accuracy and image quality, NEC is known as a leader. We are building a pathway of technological advancements to achieve the perfect picture.

**SweetVision digital contrast enhancement**

A proprietary technology from NEC, SweetVision enhances digital contrast from interlaced images. The output creates vibrant colors, rich, realistic, film-like blacks and images that draw you into the action.

**Enhanced 3D 10-bit video decoder**

Designed by NEC, this technology offers black level expansion and adaptive gamma correction. This feature further expands contrast and enhances color and skin tone accuracy while reducing video noise.

**Faroudja DCDi for super-smooth video**

The GT Series incorporates Faroudja DCDi technology to produce images that are smooth and natural. Jagged edges that usually appear in standard interlaced video are reproduced with film-like quality. The end result is a picture that has smooth and crisp edges.

**original image**

**image with Faroudja DCDi**

DCDi™ by FAROUDJA

# fine-tune your image.

original image

after VORTEX Technology Plus color adjustment

original image

after VORTEX Technology Plus white balance correction

**VORTEX Technology Plus**

This proprietary NEC technology provides uncompromising display of video and data. Instead of overall color correction, each RGB or CMYK color can be individually controlled.

The six-axis adjustments including gamma correction, digital color correction and white balance correction improve white levels, color accuracy, dynamic range and the varying levels of black in an image. The best part is the on-screen instant viewing. As soon as you slide the controls your picture automatically reflects the adjustment. Go ahead...fine tune.

integrated networking

wireless or wired pc card networking

horizontal and vertical lens shift

3D Reform

screen trigger

GT10RLB 1:1 short throw lens

GT13ZLB 1.2-1.5:1 short throw lens

GT20ZL 2.0-2.6:1 medium throw lens

GT24ZLB 2.2-3.2:1 medium throw lens

GT34ZLB 3.2-4.9:1 long throw lens

# powerful optics for projector placement

**Lens options**

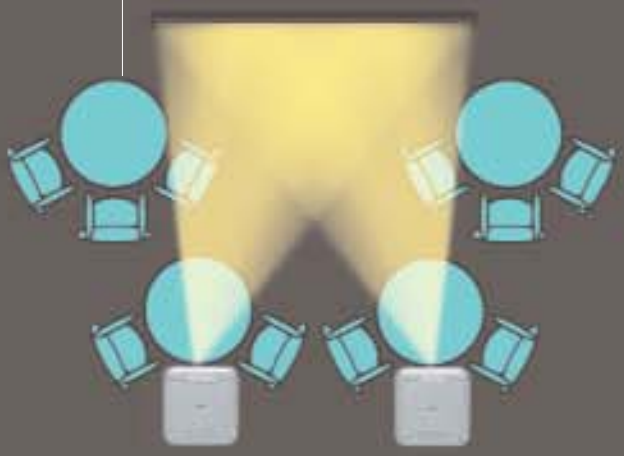
The GT projectors come lensless or bundled with the GT20ZL lens covering distances from 5' to 52'. However, there are many applications that require projection distances closer or farther in range. For these instances there are optional lenses available to match the throw distance desired.

Short throw lenses project clean, crisp images at close ranges. The GT10RLB and GT13ZLB allow projector placement as close as 30" enabling the presentation to fit perfectly on the screen.

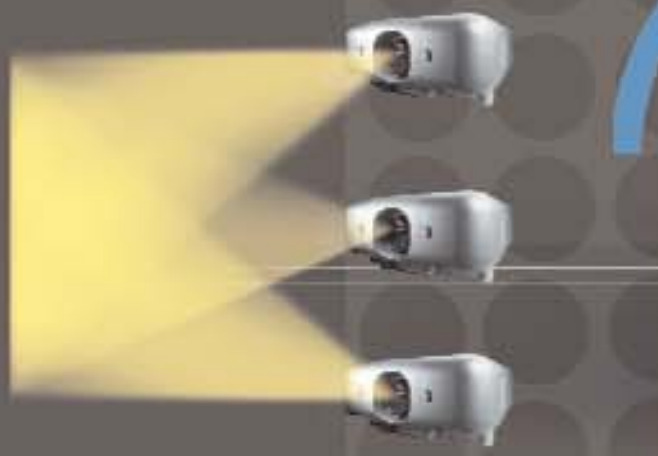
For middle zoom projection distances that range from 5' to 86' choose from the GT20ZL or the GT24ZLB. Both include lens memory and power capabilities.

And for distances that start at 17' there is the powerful long throw lens. The GT34ZLB can project to distances up to 163' away! The clarity and color are still sharp and precise even at these distances.

optical horizontal lens shift



optical vertical lens shift



# optical power

2 module
card slots

dual lamp
configuration –
selectable

6 lamp settings

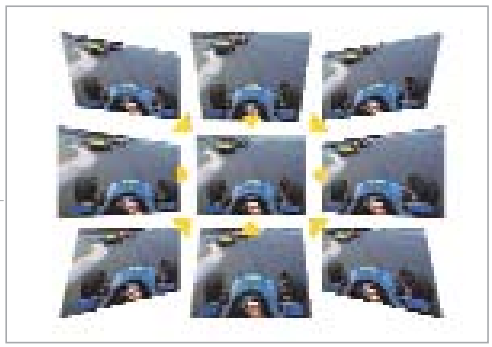
SweetVision
Technology

VORTEX
Technology Plus

**Powered horizontal and vertical lens shift and lens memory**

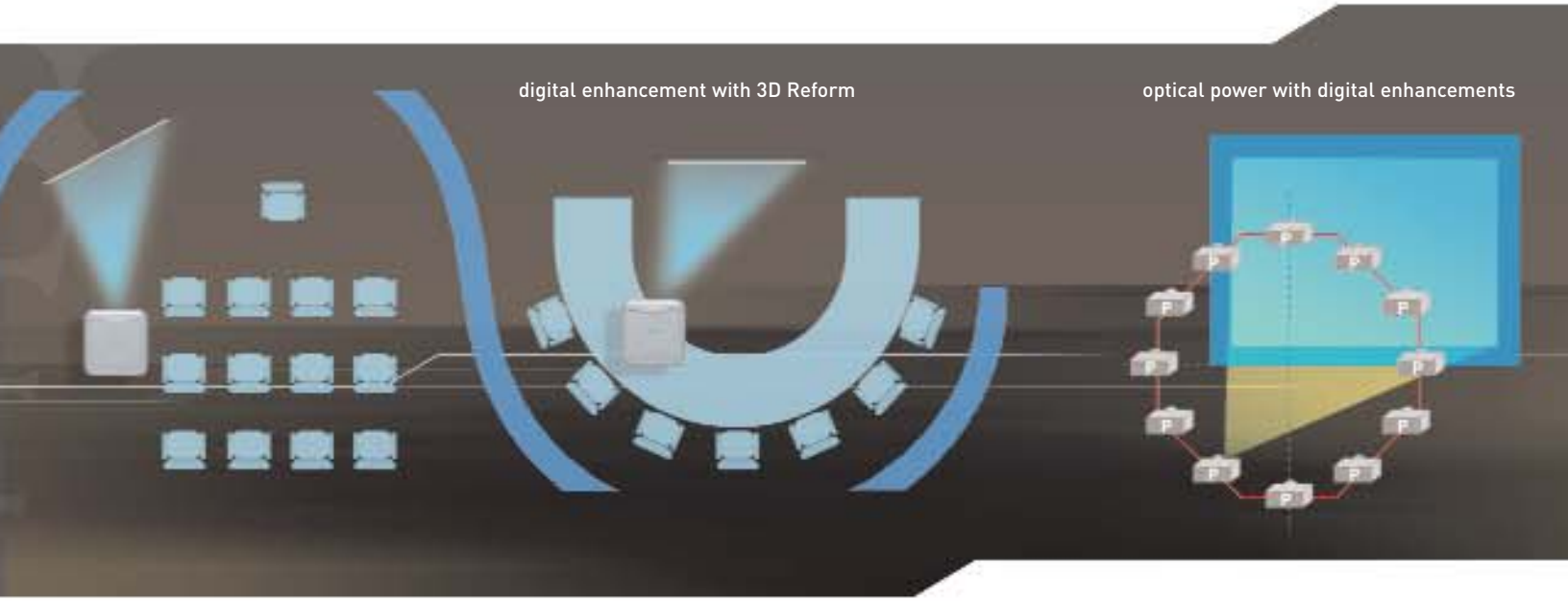
The GT Series features state-of-the-art optics allowing for horizontal and vertical power lens shift. Projector placement no longer needs to be centered to the screen. At a press of a button shift ±0.5V or ±0.32H for an undistorted, super-sharp image. And save significant time by storing key lens information in the projector's memory based on input resolution and input selected for different screen and aspect ratios.

# digital enhancement



**3D Reform™ squares the image**

Enhancing upon the effects of optical offset capability, now you can display a perfectly square image even from the most severe angle with NEC's proprietary new 3D Reform geometry correction technology. The result is a vivid, razor-sharp image. If the projection is distorted, simply set the four corners of the screen to activate the keystone correction then square the picture. With horizontal correction ability of ±30° and vertical of ±40°, this allows greater freedom in projector and room set up because now the projector can be at an angle to the screen. When a USB mouse is connected, keystone corrections can be made with a simple click.



# networking to fit your needs

**Control and monitor**

With multiple ways to configure presentations, NEC has developed a Dynamic Image Utility software that produces the interface to manage these complex needs. Remote diagnostics and asset management are easily monitored. You can now remotely check projector use, check lamp life, and monitor what type of information is being projected from a remote location via the LAN system. In addition, the projector can proactively send an email to alert an administrator when it malfunctions or needs a lamp change. In many cases this enables your management service to diagnose and fix the projector before any problems arise.

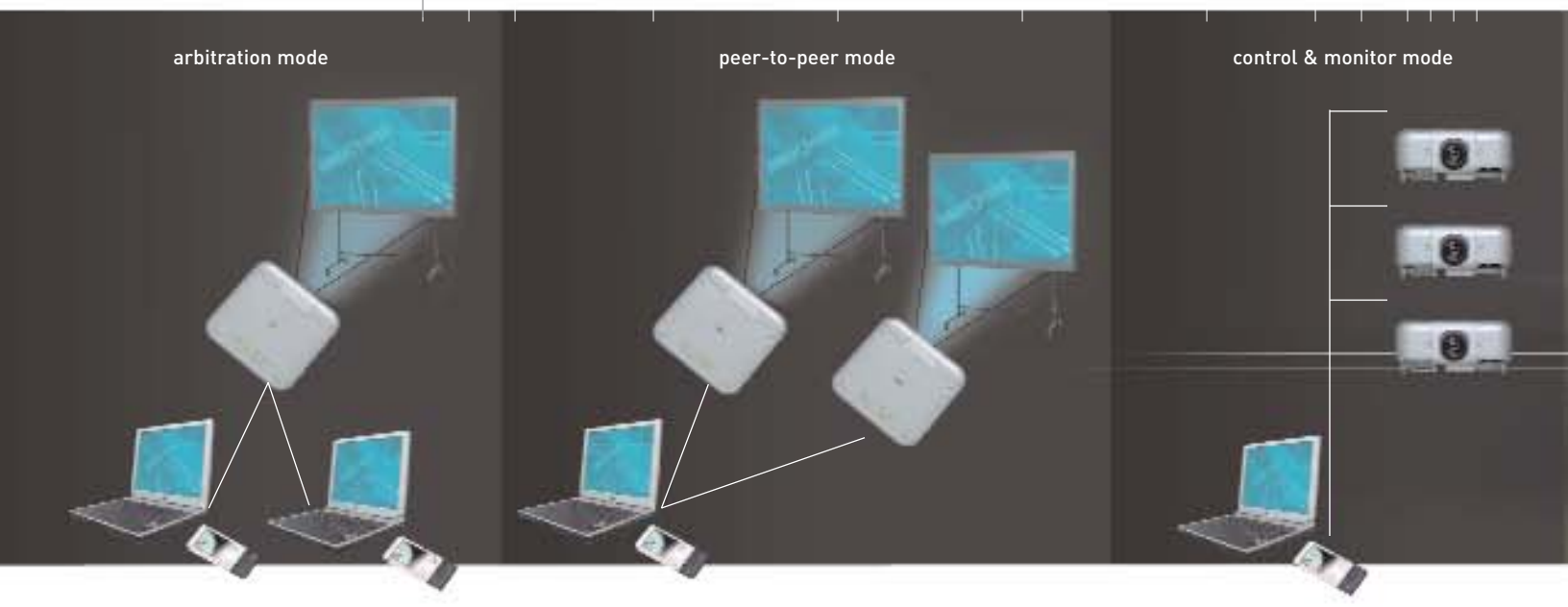
**Content delivery**

NEC introduces the gateway to expanding information sharing, communication and presentation through your local or wide area network. NEC ImageExpress™ technology enables you to present and communicate in real time. This is not file transfer—it's a proprietary method of sending information from your laptop or desktop computer through your network to an ImageExpress enabled projector. What you see on your computer is what you will see on the projector!

ImageExpress is application independent....no matter what you are trying to present or communicate, it will be displayed in real time either through a wired LAN system using 10/100base or Peer to Peer using the wireless WiFi 802.11b standard.

With ImageExpress, you can now use a projector to easily and effortlessly collaborate and communicate in meetings. You can give presentations from separate laptops, in succession, and in real time from the same projector using arbitration mode. Toggling from one presenter to another is as simple as pressing a button.

Training can also be enhanced with ImageExpress. You can now take a presentation from a single laptop and project it in real time onto multiple screens using multiple projectors using peer-to-peer mode. This is ideal for group training in large rooms and other environments where it would be beneficial to have multiple screens showing the real-time transmission of information from a single laptop.



# expand your capabilities

dynamic image utility

Advanced Accublend Technology

AutoSense one-touch adjustments

Eco-Mode lamp technology

double stackable

seamless switching (GT6000 only)

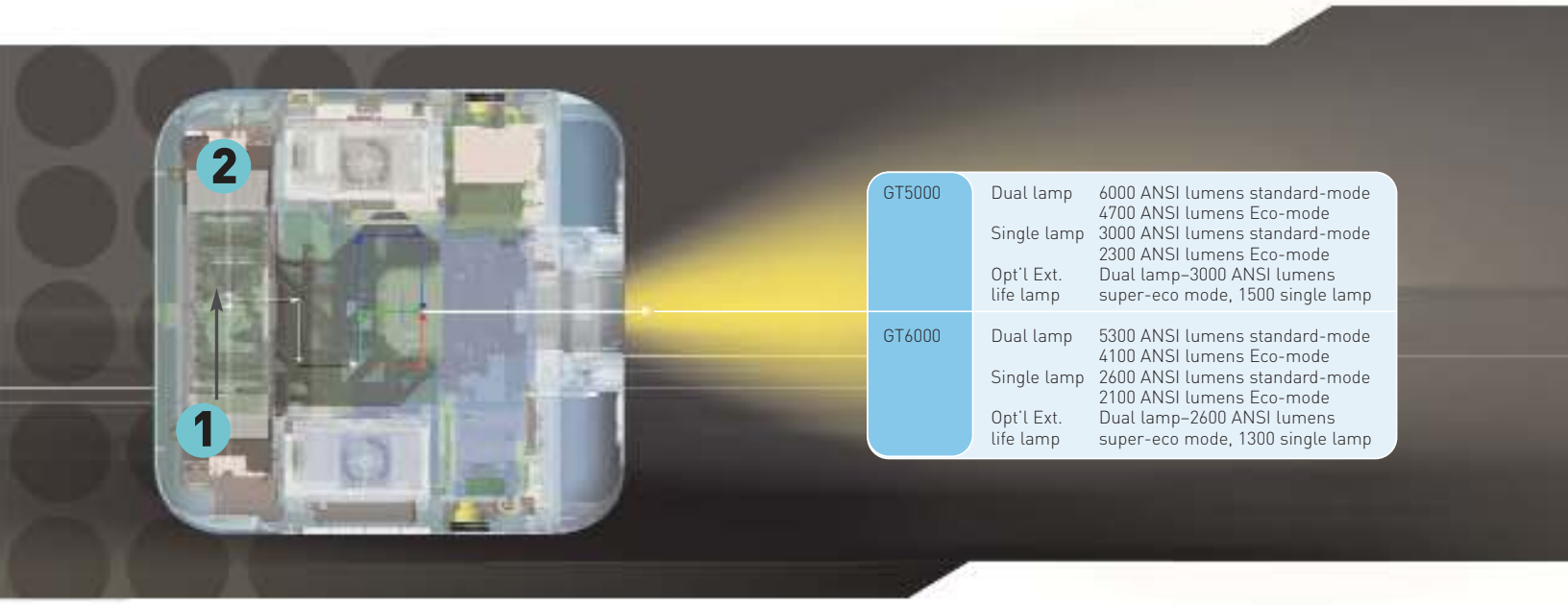
**Optional interface cards**

Customize the projector to fit your growing needs. The optional interface cards allow the newest technology to be added to the projector including DVI, BNC and HDSDI for digital connectivity.

GT Series expansion capabilities allow you to expand your projector as your needs grow.

**Dual lamp with long lamp life**

The GT Series features dual lamps, providing up to 6000 ANSI lumens of light output. Achieve up to six different light configurations and settings depending on which dual lamp system you build. Set your projector in Eco-Mode, and you can increase lamp life up to 3000 hours per lamp! Install the optional long life lamp and achieve up to 4500 hours of lamp life per bulb! For maximum light output the GT Series comes equipped with a free standing double stacking capability for up to 12,000 ANSI lumens of screen lighting power.




| | | |
|---|---|---|
| GT5000 | Dual lamp | 6000 ANSI lumens standard-mode<br>4700 ANSI lumens Eco-mode |
| | Single lamp | 3000 ANSI lumens standard-mode<br>2300 ANSI lumens Eco-mode |
| | Opt'l Ext. life lamp | Dual lamp–3000 ANSI lumens super-eco mode, 1500 single lamp |
| GT6000 | Dual lamp | 5300 ANSI lumens standard-mode<br>4100 ANSI lumens Eco-mode |
| | Single lamp | 2600 ANSI lumens standard-mode<br>2100 ANSI lumens Eco-mode |
| | Opt'l Ext. life lamp | Dual lamp–2600 ANSI lumens super-eco mode, 1300 single lamp |

# security

### Security menu

NEC understands projector theft has a costly impact on an organization's budget. The GT Series has been designed with enhanced security features to help reduce unauthorized access and adjustments to the projector. Through the security menu, a keyword can be setup to enable the projector to project a signal. There is also an option to lock the projector through the use of a registered PC card as a protect key. When the PC card is removed and if there is a loss of power (ie the projector is unplugged) the registered PC card is required to again project a signal.

Cabinet control panel buttons can also be locked to ensure projector settings are not accessed or changed by an unauthorized user. The menu itself is customizable and allows for password protection. This allows the projector to be installed and provides users access to only predetermined menu items. All of these features further eliminate unauthorized use and access to the projector.

### Logo menu

As a further deterrent, a company logo can be loaded and saved to be displayed on the screen at projector startup and when no signal is being displayed. The logo display can be password protected, so only authorized administrators can make any changes.

# NEC's commitment

net.neighbor
1.800.NEC.0492

**net.neighbor**

Assistance is a phone call away. net.neighbor, an NEC exclusive, is available 24 hours a day, 7 days a week, to offer you personal technical assistance in configuring your GT projector on the network. Knowledgeable, experienced NEC technicians will guide you every step of the way.

JQA-EM1665

**to our products**

Quality is a priority at NEC. From development and engineering to the production of each component we exceed rigid quality standards. We also pride ourselves in being first to market with new and exciting technologies.

JQA-1729

Responding to the latest government requirements, the GT Series is ADA508 compliant. This allows users to select the display color of the menu settings and enables closed captioning. Additionally, the GT Series meets Presidential Executive Order 13211 requiring projectors to operate at <1 watt in standby mode.

ECO-MODE

**to our service**

Our sales and technical support teams remain the most highly acclaimed service centers in the industry. You can rely on NEC's fast and efficient service network to provide specialized programs such as InstaCare®, InstaCare Xpress℠, net.neighbor® and TravelCare℠.

**to the environment**

We take our responsibility to the environment very seriously, especially since our products are used worldwide. We continually look for ways to improve the efficiency of our projectors with features like EcoMode that reduces overall projector power consumption and helps to conserve energy. In addition our projectors are constructed with environmentally friendly materials and our projector factories are certified to meet the ISO environmental quality standards (ISO 14001) and are ISO9001 and ISO9002 certified.

# GT5000 and GT6000

## Accessories

GT60ATA

LENS

LAMPS

## Additional Features

| | |
|---|---|
| Networking | Integrated wired networking or wireless/wired PC Card network connectivity options allows systems administrators to conduct remote diagnostics and control for asset management, email notification and real time source display |
| Lens Shift | Powered Horizontal and Vertical mechanical lens shift provides the ability to project from off center screen installations while maintaining the native image quality of the source information |
| Lens Memory | Controls lens attributes (zoom, focus, shift) based on input resolution and input selection |
| SweetVision Technology | NEC proprietary chip based solution for added digital contrast enhancement for interlaced images more vibrant, colors more realistic and blacks richer with detail |
| Security Enhancements | User can enable projector to become inoperable if password or PCMCIA security card are not input; Cabinet Control Panel Lock- cabinet control keys to prevent unauthorized access and adjustments; Password protected Logo and menu enable to further eliminate unauthorized use; Kensington Lock slot |
| Module Card Slots | Two card slots provide for future projector growth with the ability to add input/output cards as needs develop |
| Lamp ID Timer | Allows you to switch between lamps and know remaining lamp life of the individual lamp |
| Backlit control panel | Control panel located on the projector lights up to allow control of the unit in limited light environments |
| Screen Trigger | Connection allows you to have the screen automatically raised or lowered if your screen incorporates this type of input. |
| Variable Audio Out | Control external amplified audio sources through the projector |
| Two Timer Settings | On/Off with programming or Sleep timer that counts down at selected intervals up to 16 hours |
| Government Regulation Compliance | ADA508 and Executive Order 13221 compliant |

VORTEX RepairCare™ net neighbor

For more information, call **(800) NEC-INFO**
or visit **www.necvisualsystems.com**

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All other trademarks are the property of their respective owners.
All specifications subject to change without notice.

NEC Solutions (America), Inc.
Visual Systems Division
1250 Arlington Heights Rd., Suite 400
Itasca, IL 60143-1248

## Optical

| | |
|---|---|
| LCD Panel | 1.4" p-Si TFT w/ MLA |
| Resolution | **GT5000**: 1024x768 pixels native, up to UXGA with Advanced AccuBlend<br>**GT6000**: 1400x1050 pixels native, up to UXGA with Advanced AccuBlend |
| Lens | Power Zoom (except GT10RLB) and Power Focus<br>**GT10RLB**: F2.4 f=28.9mm; **GT19ZLB** : F2.0-2.7 f=48.9-63.7mm;<br>**GT13ZLB**: F2.3-2.8 f=34.5-42.5mm; **GT20ZL** : F1.8-2.5 f=57.4-74.7mm;<br>**GT24ZLB**: F2.5-3.2 f=64.0-93.8mm; **GT34ZLB** : F2.5-3.3 f=93.5-140.3mm;<br>**GT48ZLB**: F2.2-3.2 f=143-209mm |
| Power Lens Shift | V: ±0.5, H: ±0.32 (GT20ZL lens) |
| Lamp | 275W NSH dual lamp system |
| Light Output | **GT5000** Dual lamp-6000 ANSI lumens normal-mode; 4700 ANSI lumens Eco-mode<br>Single lamp-3000 ANSI lumens normal-mode; 2300 ANSI lumens Eco-mode<br>Optional extended life lamp: Dual lamp–3000 ANSI lumens super-eco mode, single lamp 1500<br>**GT6000** Dual lamp-5300 ANSI lumens normal-mode; 4100 ANSI lumens Eco-mode<br>Single lamp-2600 ANSI lumens normal-mode; 2100 ANSI lumens Eco-mode<br>Optional extended life lamp: Dual lamp–2600 ANSI lumens super-eco mode, single lamp 1300 |
| Lamp Life (up to per lamp) | **Optional Extended lamp:** 4500H; **Normal lamp:** Eco-mode: 3000H; Normal mode: 2000H |
| Contrast Ratio | 700:1 |
| Image Size | **GT10RLB:** 40"- 250"<br>**GT20ZL/GT19ZLB/GT13ZLB**: 40"- 300"<br>**GT24ZLB**: 60"- 400"<br>**GT34ZLB/GT48ZLB**: 80"- 500" |
| Keystone Correction | ±40° (Vertical), ±30° (Horizontal) |
| Projection Distance | **GT10RLB:** 30.0"- 198.6" (0.76 - 5.04 m)<br>**GT13ZLB:** 36.0"- 354.9" (0.91 - 9.01 m)<br>**GT19ZLB:** 51.0"- 534.1"(1.30 - 13.57 m)<br>**GT20ZL:** 60.1"- 625.7" (1.53 - 15.89 m)<br>**GT24ZLB:** 101.6"- 1040.6" (2.58 - 26.43 m)<br>**GT34ZLB:** 200.6"- 1958.4" (5.10 - 49.74 m)<br>**GT48ZLB:** 302.4"- 2901.6" (7.68 - 73.7 m) |
| Projection Angle | **GT20ZL:** 8.2-11.3; **GT19ZLB:** 7.5-10.4; **GT13ZLB:** 9.2-12.0; **GT24ZLB:** 5.1-7.9; **GT34ZLB:** 3.4-5.3; **GT48ZLB:** 3-4.5; **GT10RLB:** 0 |

## Electrical

| | |
|---|---|
| Inputs | 1 5-BNC, 1 DVI-D, 1 RGB, 1 S-Video, 1 Video, 1 RJ45 Network, 3 RCA Audio, 2 Stereo Mini Audio, 1 Remote, 1 PC Control, 2 PC Card slots, 2 option card slots: 1 USB A |
| Outputs | 1 RGB, 1 RCA Audio, 1 Screen Trigger, 1 PC Control, 1 Remote (mini), 1 USB B |
| Video Compatibility | NTSC, NTSC4.43, PAL, PAL60, PAL-M, PAL-N, SECAM, HDTV: 1080p, 1080i, 720p and SDTV: 480p, 480i (with optional cable), Y/Cb/Cr component (with optional cable) |
| Scan Rate | Horizontal - 15 to 100 kHz (non-interlaced); Vertical - 48 to 120Hz |
| Video Bandwidth | RGB 100 MHz |
| Pixel Clock Freq | 160MHz |
| Screen Trigger | Stereo mini-jack |
| Color Reproduction | 16.7 million colors simultaneously, Full color |
| Horizontal Resolution | NTSC, NTSC4.43, PAL - 550TV lines, Y/Cb/Cr - 800 TV lines, SECAM - 350 TV lines,<br>**GT5000**: RGB - 1024 dots x 768 dots; **GT6000**: RGB - 1400 dots x 1050 dots |
| External Control | RS232 (AMX/Crestron compatibility), IR, USB, Network (LAN) |
| Sync Compatibility | Separate Sync / Composite Sync / Sync on G |
| Built-in Speakers | 5Wx2 |
| Operational fan level | 40dB Super-Eco, extended lamp; 40dB Eco-mode; 45dB normal |
| Power Requirements | 100-120VAC/200-240VAC, 50/60Hz |
| Input Current | 8.0A (100-120VAC), 4.0A (200-240VAC) |
| Power Consumption | 800W average (normal mode) |

## Mechanical

| | |
|---|---|
| Installation | Orientation: Floor/Front, Floor/Rear, Ceiling/Front, Ceiling/Rear |
| Dimensions (WxDxH) | 20.4x21.6x9.5 inch, 518x548x242mm not including protrusions |
| Net Weight | 40.57 lbs. (18.4Kg.) - without lens |
| Environment | Operational Temp. 32° to 95°F / 0° to 35°C; Humidity: 20-80% non-condensing<br>Storage: 14° to 122°F / -10 to 50°C |
| Regulations | USA UL 60950 FCC Class B; Canada CSA60950 ( C-UL ) |
| Accessories | User manual, wired/wireless addressable remote control, power cable, remote cable, registration card, and CD Rom. |
| Warranty | Owners receive a 2-year limited parts and labor warranty. RepairCare™ is provided during the first year of coverage for registered owners. RepairCare provides the original owner with 3-business day repair and return of the projector. When used under normal operating conditions, the lamp is covered for 90 days or 500 hours, whichever comes first. |

## Product/Accessories

| Order Code | Description |
|---|---|
| GT5000 | GT5000, XGA, 6000 ANSI projector |
| GT6000 | GT6000, SXGA+, 5300 ANSI projector |
| GT60LP | Single replacement lamp |
| GT60LPS | Optional long life, single replacement lamp |
| GT10RLB | 1:1 Short throw lens |
| GT13ZLB | 1.2-1.5:1 Short throw zoom lens |
| GT19ZLB | 1.66-2.20:1 zoom lens |
| GT20ZL | 2.0-2.6:1 zoom lens |
| GT24ZLB | 2.2-3.2:1 zoom lens |
| GT34ZLB | 3.2-4.9:1 zoom lens |
| GT48ZLB | 4.77-7.12:1 zoom lens |
| MM-BNC | Optional BNC interface card |
| MM-SDI | Optional HD/SD interface card |
| GT60CM | Ceiling mount kit |
| GT60ATA | ATA shipping case |

## Warranty Options

| | |
|---|---|
| GTPL-01 | 1 year limited parts and labor extension for GT series models |

* Existing GT lenses will work on the GT5000 and GT6000 with some variances.